

Title (en)
ENCLOSED ELECTRIC ROTATING MACHINE

Title (de)
GEKAPSELTE ELEKTRISCHE ROTIERENDE MASCHINE

Title (fr)
MACHINE ROTATIVE ELECTRIQUE ENCAPSULEE

Publication
EP 3113334 A1 20170104 (DE)

Application
EP 15174959 A 20150702

Priority
EP 15174959 A 20150702

Abstract (en)
[origin: WO2017001131A1] The invention relates to an electric rotating machine (10) comprising a rotor (7), a stator (1) surrounding the rotor (7), and an air gap (6) between the rotor (7) and the stator (1). In order to obtain high efficiency and a compact design, the stator (1) has stator windings (13) that are encased, and the stator (1) immediately adjoins the air gap (6).

Abstract (de)
Die Erfindung betrifft eine gekapselte elektrische rotierende Maschine (10), aufweisend einen Rotor (7), einen den Rotor (7) umgebenden Stator (1) und einen zwischen dem Rotor (7) und dem Stator (1) befindlichen Luftspalt (6). Um eine hohe Effizienz und eine kompakte Bauweise zu erreichen, wird vorgeschlagen, dass der Stator (1) Statorwicklungen (13) aufweist, welche gekapselt sind und dass der Stator (1) unmittelbar an den Luftspalt (6) angrenzt.

IPC 8 full level
H02K 3/38 (2006.01); **H02K 5/132** (2006.01); **H02K 15/02** (2006.01)

CPC (source: CN EP RU US)
H02K 3/28 (2013.01 - RU US); **H02K 3/38** (2013.01 - EP RU US); **H02K 3/44** (2013.01 - CN); **H02K 3/50** (2013.01 - CN); **H02K 5/12** (2013.01 - CN); **H02K 5/128** (2013.01 - RU US); **H02K 5/132** (2013.01 - EP RU US); **H02K 15/02** (2013.01 - CN RU US); **H02K 15/022** (2013.01 - EP RU US)

Citation (applicant)
• WO 2004107532 A1 20041209 - SIEMENS AG [DE], et al
• WO 2008046817 A1 20080424 - SIEMENS AG [DE], et al
• US 4831297 A 19890516 - TAYLOR OWEN S [US], et al

Citation (search report)
• [XY] US 6069421 A 20000530 - SMITH MITCHELL D [US], et al
• [Y] US 4831297 A 19890516 - TAYLOR OWEN S [US], et al
• [A] EP 0412858 A1 19910213 - POMPES SALMSON SA [FR]
• [Y] DE 102008043386 A1 20100506 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
• [A] US 2005074548 A1 20050407 - PUTERBAUGH DAVID K [US], et al

Cited by
DE102018113319A1; DE102018113319B4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3113334 A1 20170104; CN 107810590 A 20180316; CN 107810590 B 20210806; EP 3281283 A1 20180214; RU 2690019 C1 20190530; US 10680485 B2 20200609; US 2018183295 A1 20180628; WO 2017001131 A1 20170105

DOCDB simple family (application)
EP 15174959 A 20150702; CN 201680036723 A 20160531; EP 16726089 A 20160531; EP 2016062224 W 20160531; RU 2017145567 A 20160531; US 201615740270 A 20160531